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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A drive unit including

an electric motor (1),

a drive unit casing (2) accommodating therein the electric motor,

an inverter (3) that controls the electric motor, and

a flow passage (4) of a refrigerant that cools the inverter, the drive unit characterized in that the inverter is mounted on the drive unit casing such that a heat sink (53) united with a substrate of the inverter defines a space (R) on a portion thereof opposed to the drive unit casing,

the space is communicated to the flow passage of the refrigerant,

the heat sink comprises heat-sink side fins (56) extending into the space toward the drive unit casing, and

the heat-sink side fins and the drive unit casing contact with each other in a state of low thermal conduction.

2. (original): A drive unit including

an electric motor,

a drive unit casing accommodating therein the electric motor,

an inverter that controls the electric motor, and

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a flow passage of a refrigerant that cools the inverter, the drive unit characterized in that the inverter is mounted on the drive unit casing such that a heat sink united with a substrate of the inverter defines a space on a portion thereof opposed to the drive unit casing,

the space is communicated to the flow passage of the refrigerant,

the heat sink comprises heat-sink side fins extending into the space toward the drive unit casing,

separation means (6) for preventing thermal conduction is provided in the space, and both the heat-sink side fins and the drive unit casing contact directly with the separation means.

- 3. (original): The drive unit according to claim 2, wherein the separation means comprises a low thermal conductive member (61).
- 4. (original): The drive unit according to claim 2, wherein the separation means comprises a plurality of separation members (60) with a space (R3) therebetween.
- 5. (original): The drive unit according to claim 2, wherein the separation means comprises a laminated member formed by laminating a low thermal conductive member on a separation member.
- 6. (currently amended): The drive unit according to any one of claims 1 to 5claim 1, wherein the drive unit casing comprises drive-unit-casing side fins (22) extending into the space toward the heat sink.

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- 7. (original): The drive unit according to claim 6, wherein the space is compartmented by the separation means into a first chamber (R1) facing toward the heat sink and a second chamber (R2) facing toward the drive unit casing.
- 8. (currently amended): The drive unit according to any one of claims 1 to 7claim 1, wherein the inverter is received in an inverter casing (5) composed of a member separate from the inverter with a substrate thereof fixed to a bottom wall of the inverter casing and constitutes a heat sink, of which a substrate is united with the bottom wall of the inverter casing.
- 9. (currently amended): The drive unit according to any one of claims 1 to 7claim 1, wherein the inverter together with the heat sink (33) that is united with a substrate thereof are received in an inverter casing composed of a member separate from the inverter.
- 10. (original): The drive unit according to claim 7, wherein the heat-sink side fins and the drive-unit-casing side fins cooperatively generate a common refrigerant flow pattern within the space.
- 11. (currently amended): The drive unit according to any one of claims 3, 6, 8 to 10claim 3, wherein the low thermal conductive member is shaped to follow contact portions of the heat-sink side fins and the drive-unit-casing side fins.